

**MINERAL EXPLORATION: TRENDS AND DEVELOPMENTS IN 2016:  
to be published in  
The Northern Miner, February/March, 2017**

4 October 2016

I would like to thank everyone who responded to my request at this time last year for input to the Annual Exploration Trends Review article which originated with the Geological Survey of Canada (GSC) over 50 years ago. This will be the 25th year I have written the review. In 2017, the Review will again be published by The Northern Miner as a supplement, in a magazine format, to be printed in time for the annual Prospectors & Developers Association Convention in March, in Toronto. It is distributed not only to Northern Miner subscribers, but is also available to PDAC attendees, and ultimately online.

For the past ten years the Canadian Exploration Geophysical Society (KEGS) has been the primary 'patron' of the Review, made possible by Mining and Exploration Industry sponsors. This year Decennial Mineral Exploration Conferences (DMEC) takes on the role of primary patron in the lead-up to Exploration '17, to be held in Toronto, 21-27 October, 2017.

In 2017 the 53rd annual 'Trends' article will follow a layout similar to previous years. The main headings for the review will be:

GENERAL EXPLORATION AND CORPORATE HIGHLIGHTS  
AIRBORNE GEOPHYSICAL SURVEYING  
GROUND SURVEY TECHNIQUES (including drill hole methods)

The headings will cover the following topics:

1. **New** geophysical (airborne, ground & borehole) data acquisition and processing techniques.
2. **New** instrumentation developed during 2016 particularly that being (or about to be) offered for sale by instrument companies. A description of the improved characteristics of new models of instrumentation would also be pertinent. A limited number of photographs of instrumentation will be included in the article.
3. **New** Services offered by the survey companies.

Contributions to the above article should reach the undersigned by **MONDAY, NOVEMBER 14, 2016**. Contributors should submit concisely written material (avoiding the use of superlatives). Text should be sent by email attached as a Word doc (e.g. in Word 2002 as in MS Office XP or earlier, not docx!) or Wordperfect X5 (or earlier). Please do not embed images in your text. This makes it difficult to edit, copy & paste your words into the review. PDF files also usually make this editing difficult or impossible. Metric units should be used in the descriptions of equipment. Also attach **DIGITAL IMAGES** in colour, of instrumentation in field use or field results where appropriate. Images that are less than 500 KB will be of resolution too low to be published by the Northern Miner. (Anything above 500 KB should be OK). Hard copies (sent to me by post) of the images together with **COMMERCIAL LITERATURE** and

**REPRINTS OF ANY ARTICLES** recently published would also be appreciated. Images of instrumentation should preferably show the complete unit in field use, rather than several photos showing separate items. The number of images which can be included in the article is limited. Please include a short caption in an email with the digital image or with any hard copy photo.

In terms of heightening visibility of the geophysical exploration industry, the 'Trends' supplement would be a good placement if your company is thinking of advertising in the Northern Miner in 2017. (Contact Joe Crofts at [jcrofts@northernminer.com](mailto:jcrofts@northernminer.com))

A pdf of the article will be available to each respondent. Hard copies will no longer be mailed out as in past years. (However, they can be obtained free at the PDAC, from the Northern Miner booth.) During preparation of this annual review, several useful tables re Geophysical Instrumentation and also Airborne Survey Contractors are compiled and updated (see the availability of the Tables from KEGS website and my request for updates on next page).

This is the only request you will receive from me concerning this review. If a reply is not received **BY NOVEMBER 14th**, it will be assumed that you do not wish to contribute anything this year. A CHECKLIST OF ITEMS TO SEND is attached for your convenience. Phone numbers and postal and email addresses are given below. Contributions may be emailed to me but ideally a confirmation copy should also be sent by post or by courier together with any illustrations. I thank you in advance for your contribution.

Yours sincerely,

Patrick G. Killeen

**NOTE: PLEASE CHECK** that your email address book has been updated with my correct email address.

Home Address:

9759 Highway 509

RR # 1, Ompah, Ontario

CANADA K0H 2J0 Phone/fax: (613) 479-2478 E-mail: [pkilleen@xplornet.ca](mailto:pkilleen@xplornet.ca)

Because I work from my home in the country (being retired), the home address and email are most direct. Also **please do not copy your email to my nrcan address** (Natural Resources Canada) as I had requested in previous years. I no longer have access to that email address.

Any hard copy info should be sent to my home address. My (satellite) xplornet e-mail is relatively fast but is only "half-fast" compared to true high speed internet. Also my mailbox size is limited. Large files (>10MB) should be broken into smaller files sent separately, or put on a CD and sent to me by post or courier.

**CHECKLIST OF ITEMS TO SEND BY MONDAY, NOVEMBER 14, 2016**

1. A descriptive paragraph on each piece of new equipment, service offered or news item.
2. Digital images of new equipment in field use or field results.
3. Commercial literature and reprints of articles.
4. Updates to your company's information in the Tables described below, as appropriate.

**\*\*\*\*\* The 'TABLES' \*\*\*\*\***

1. **2016 Manufacturers of Mining Geophysical Equipment in Canada**
2. **2016 Canadian Airborne Geophysical Survey Contractors**
3. **2016 Capabilities of Airborne Geophysical Survey Contractors** (International)
4. **2016 Commercially Available IP Equipment** (International)
5. **2016 Mining Geophysical Equipment Commercially Available in Canada**
6. **2016 Ground Geophysical Survey Contractors** (International)

The annual review of 2015 (published in 2016) and the Tables (based on last year's submissions) are available for download as PDF files on the KEGS website ([kegsonline.org](http://kegsonline.org)).

**NOTE:** With the support of Ken Witherly (Condor Consulting; [ken@condorconsult.com](mailto:ken@condorconsult.com)) the annual compilation of the table of **GROUND GEOPHYSICAL CONTRACTORS** was started in 2013. In November 2015 we updated the info on Ground Geophysical Survey Contractors which can also be downloaded from KEGS.

Airborne geophysical survey contractors are requested to provide any updates to the Tables and return it with their submission. Canadian Geophysical Instrumentation Companies should provide updates of their information listed in the Tables where necessary. Delete any equipment that is no longer manufactured, and return the updates with your submission (marked up hard copies of tables sent to me by post or by fax is a good method). If you are aware of new companies which should be included in these tabulations, please pass on my contact information.

The updated Tables for 2016 should be available after March 2017.

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**NOTE:** A separate request for updates to the Ground Contractor Table will be sent to **ground geophysical survey contractors** at a later date. Please pass this information on to any companies that are not listed, but which should be included in the Table.